

**AMENDMENTS TO THE SPECIFICATION:**

Page 1, please add the following new paragraphs before paragraph [0001]:

[0000.2] CROSS-REFERENCE TO RELATED APPLICATIONS

[0000.4] This application is a 35 USC 371 application of PCT/DE 2004/001995  
filed on September 6, 2004.

Please add the following new paragraph after paragraph [0001]:

[0001.5] Field of the Invention

Please replace paragraph [0004] with the following amended paragraph:

[0004] [[From]] German Patent Disclosure DE 190 55 271 A1[[,]] **discloses** a pressure-  
/stroke-controlled injector with a hydraulic booster **in which, in is known.** In an injector  
housing, 2/2-way control valves are received, whose vertical motion is coupled together via a  
bridge. The 2/2-way control valves are located on the inlet and outlet sides and precede a  
hydraulic booster. The hydraulic booster subjects a pressure chamber, surrounding a nozzle  
needle, to fuel that is at high pressure. The two 2/2- way control valves are received  
diametrically opposed to one another in the housing of the fuel injector.

Page 2, please replace paragraph [0007] with the following amended paragraph:

[0007] ~~Summary of the Invention~~ **SUMMARY OF THE INVENTION**

Page 4, please replace paragraph [0011] with the following amended paragraph:

[0011] ~~Drawing~~ **BRIEF DESCRIPTION OF THE DRAWING**

Please delete paragraph [0012].

Please replace paragraph [0013] with the following amended paragraph:

[0013] The **invention is described in further detail below, in conjunction with the** sole drawing figure is a section through the fuel injector, provided according to the invention, with a multi-part, needle-like injection valve member and a hydraulic booster assembly, by way of whose booster chambers, control chambers associated with the inner and outer needle parts, respectively, of the multi-part injection valve member can be pressure-relieved or subjected to pressure.

Please replace paragraph [0014] with the following amended paragraph:

[0014] **Variant Embodiment**

**DESCRIPTION OF THE PREFERRED EMBODIMENT**

Page 5, please replace paragraph [0017] with the following amended paragraph:

[0017] The multi-part, needle-like injection valve member 21 has an outer needle part 22 and an inner needle part 23, the inner needle part being movable inside the outer needle part. The inner needle part 23 is acted upon by the first control chamber 19, which is in communication with the second booster chamber 17 of the hydraulic booster assembly, while the outer needle part 22 is actuated via the second control chamber 20, which is in communication with the first booster chamber 13 via the overflow line 18. The outer needle part 22 has an end face 24, toward ~~the control chamber~~ and defining the second control chamber 20, and a first pressure step 25 on its outside, as well as a further, second pressure step 26, which is embodied on the inside of the outer needle part 22. Between the outer needle part 22 and the inner needle part 23, a pressure chamber 29 is embodied, which is defined by an annular face

27 embodied on the inner needle part 23. The action on the inner pressure chamber 29 is exerted via pressure chamber inlets 30, which pierce the wall of the outer needle part 22. Through the pressure chamber inlets 30, an overflow of fuel, which flows at high pressure into the nozzle chamber 8, into the inner pressure chamber 29 between the outer needle part 22 and the inner needle part 23 is assured.

Page 6, please replace paragraph [0018] with the following amended paragraph:

[0018] On the outer circumference of the end toward the combustion chamber of the outer needle part 22, a seat 31 is embodied, which has a first seat diameter 32. The seat edge embodied with the first seat diameter 32 cooperates with the wall of the nozzle body 3. A second seat 33, likewise cooperating with the wall of the nozzle body, is embodied on the inner needle part 23, which is guided in the outer needle part 22 of the multi-part injection valve member 21. The ~~seat diameter of the~~ second seat 33 of the inner needle part 23 is embodied with a second seat diameter 34 ( $d_1$ ), which is considerably smaller than the first seat diameter 32 of the outer needle part 22. In the closed state, shown in the drawing, of the multi-part injection valve member 21, first injection openings 35 are separated by the closed seat 31 of the outer needle part 22 from an annular gap 41, in which fuel at high pressure is present via the nozzle chamber 8. By means of the seat 33 of the inner needle part 23, also shown in its closed state in the drawing, second injection openings 36 are also closed off from the fuel at high pressure that is present in the annular gap 41. In the closed state, shown in the drawing, of the multi-part, needle-like injection valve member 21, a wedge-shaped annular chamber 42 forms between the seat 31 of the outer needle part 22 and the seat 33 of the inner

needle part 23. The combustion chamber, into which when the multi-part injection valve member 21 is open fuel is injected either via the first injection openings 35 or via the opened first and second injection openings 35, 36, is identified by reference numeral 43.

Page 7, please replace paragraph [0019] with the following amended paragraph:

[0019] The outer needle part 22 of the multi-part, needle-like injection valve member 21 is received in a guide length 37 in the nozzle body 3, while the inner needle part 23 is ~~defined~~ **received** in a guide length 38, ~~which extends into this body 3~~ **of outer needle part 22** between the pressure chamber inlets 30 of the outer needle part ~~[[23]]~~ **22** and its seat 31. Although not shown in detail in the drawing, the outer needle part 22 may also be guided in the nozzle body 3 in a plurality of guide faces, for instance offset by 120° from one another.

Page 8, please replace paragraph [0023] with the following amended paragraph:

[0023] In the closed state, shown in the drawing, of the multi-part injection valve member 21, the actuator is supplied with current and is extended. Because current is being supplied to the actuator 6, which is preferably embodied as a piezoelectric actuator, its piezoelectric crystals, which are located one above the other in the form of a stack, lengthen and accordingly act on the booster piston 10. The second end face 12 of the booster piston moves into the first booster chamber 13. By means of the second end face 12 of the booster piston 10, the booster piston extension 14 ~~[[is]]~~ also ~~retracted~~ **moves** into the second booster chamber 17 of the hydraulic booster assembly 9. The first booster chamber 13 and the second booster chamber 17 are filled by way of the reference leakages between the outer needle part

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22 and the nozzle body 3, the reference leakage between the inner needle part 23 and the injector body 2, and the reference leakage between the booster piston 10 and the fuel inlet 5.

Page 11, please add the following new paragraph after paragraph [0030]:

[0031] The foregoing relates to a preferred exemplary embodiment of the invention, it being understood that other variants and embodiments thereof are possible within the spirit and scope of the invention, the latter being defined by the appended claims.

Please delete pages 12 and 13.